



# **Surveillance HDD** **(Bacall BP2.0)** ***Regulatory*** ***Assurance Certification***

*February 17, 2017*

***CONFIDENTIAL***

*Rev D*

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**Author: Regulatory Assurance**

# CERTIFICATE OF COMPLIANCE

Certificate Number 20150216-E106814 ]  
Report Reference E106814-A1-UL ]  
Issue Date 2015-FEBRUARY-16 ]



**Issued to:** SEAGATE TECHNOLOGY L L C ]  
389 DISC DR  
LONGMONT CO 80503-9364 ]

**This is to certify that  
representative samples of**

COMPONENT - INFORMATION TECHNOLOGY  
EQUIPMENT INCLUDING ELECTRICAL BUSINESS  
EQUIPMENT ]

Internal Hard Disk Drive: ST3 with additional suffixes, 3.5  
Series, ST9 with additional suffixes, 2.5 Series, ST with  
additional suffixes.

(suffixes are not safety related and it could be any alpha  
numeric characters) ]

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60950-1, (Information Technology Equipment - Safety -  
Part 1: General Requirements).  
CAN/CSA C22.2 No. 60950-1-07, (Information Technology  
Equipment - Safety - Part 1: General Requirements). ]

**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information



Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product ]

*B. Mahlenholtz*

Bruce Mahlenholtz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

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contact a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)





Ref. Certif. No.

US-24632-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE

## CERTIFICAT D'ESSAI OC

Product  
ProduitName and address of the applicant  
Nom et adresse du demandeurName and address of the manufacturer  
Nom et adresse du fabricantName and address of the factory  
Nom et adresse de l'usineNote: When more than one factory, please report on page 2  
Note: Lorsque il y a plus d'une usine, veuillez utiliser la 2<sup>ème</sup> pageRatings and principal characteristics  
Valeurs nominales et caractéristiques principalesTrademark (if any)  
Marque de fabrique (si elle existe)Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais  
constructeurModel / Type Ref.  
Ref. De typeAdditional information (if necessary may also be  
reported on page 2)  
Les informations complémentaires (si nécessaire,..  
peuvent être indiqués sur la 2<sup>ème</sup> pageA sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à laAs shown in the Test Report Ref. No. which forms part  
of this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue partie de ce Certificat

Internal Hard Disk Drive

SEAGATE TECHNOLOGY L L C  
389 DISC DR  
LONGMONT CO 80503-9364 USASEAGATE TECHNOLOGY L L C  
389 DISC DR  
LONGMONT CO 80503-9364 USASEAGATE TECHNOLOGY INTERNATIONAL (WUXI) CO LTD  
106 XING CHUANG ER LU WUXI-SINGAPORE INDUSTRIAL  
PARK WUXI JIANGSU 214028  
CHINA☒ Additional Information on page 2  
See Page 22.5 Series, 3.5 Series, ST with additional suffixes,  
ST3 with additional suffixes, ST9 with additional suffixesAdditionally evaluated to EN 60950-1: 2006 / A11: 2009 / A1:  
2010 / A12: 2011 / A2:2013; National Differences also specified in  
the CB Test Report.☐ Additional Information on page 2IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1,  
IEC 60950-1(ed.2);am2

E106814-A1-CB-6 issued on 2015-02-12

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de CertificationUL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA  
UL (Denko), Borupvang SA DK-2750 Ballerup, DENMARK  
UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN  
UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/nobnames

Date: 2015-02-12

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US-24632-UL

**Factories:**

SEAGATE TECHNOLOGY LLC C/O AUDIO VIDEO COLOR CORP  
17707 S SANTA FE AVE EAST RANCHO DOMINGUEZ CA 90221-5419  
USA

SEAGATE TECHNOLOGY (SUZHOU) CO LTD  
1 WUXIANG RD, EXPORT PROCESSING ZONE A 200 SU HONG ZHONG RD SUZHOU INDUSTRIAL PARK  
SUZHOU JIANGSU 215021  
CHINA

SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD C/O GREYSTONE DATA SYSTEMS  
62 LINH TRUNG EX PROCESSING ZONE II HO CHI MINH CITY  
VIET NAM

SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD C/O SAE MAGNETICS (HK) LTD  
WINNERWAY INDUSTRIAL AREA NANCHENG DONGGUAN GUANGDONG  
CHINA

SEAGATE TECHNOLOGY (THAILAND) LTD  
90 MOO 15 A SUNGNEON, T SUNGNEON NAKHON RATCHASIMA 30170  
THAILAND

TELEPLAN TECHNOLOGY SERVICES SDN BHD  
2580 TINGKAT PERUSAHAAN 4B ZON PERDAGANGAN BEBAS DUA 13800 PULAU PERAI  
MALAYSIA

SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD C/O CAL-COMP INDUSTRIA E COMERCIO  
DE ELETRONICOS E INFORMATICA LTDA  
AV TORQUATO TAPAJOS, 7503 TARUMA GALPAO 2 MOD 7, 19, 20, 21 69041-025  
BRAZIL

SEAGATE TECHNOLOGY L L C  
399 DISC DR LONGMONT CO 80503-9364  
USA

JABIL CZECH REPUBLIC, S.R.O./ UPS SCS (CZECH REPUBLIC) S. R. O.  
GENERALA FAJTLA 372 74251 MOSNOV  
CZECH REPUBLIC

JABIL GLOBAL SERVICES NETHERLANDS B V  
KOOLHOVENLAAN 1 1119 NB SCHIPHOL-RIJK  
NETHERLANDS

SEAGATE TECHNOLOGY LLC C/O AUDIO VIDEO COLOR CORP  
2155 AIRWEST BLVD PLAINFIELD IN 46168-7716  
USA

**Ratings:**

ST3 or 3.5 Series or ST with additional suffixes: 5/12, 1.5 A max. / 1.5 A max. (drives will be marked with actual current ratings)

ST9 or 2.5 Series or ST with additional suffixes: +5 Vdc, 1.5 A max. (drives will be marked with actual current ratings)

**Additional information (if necessary)**

**Information complémentaire (si nécessaire)**



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA



UL (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK



UL (JP), Marunouchi Trust Tower Main Building 6F, 1-9-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN



UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/nobnames](http://www.ul.com/nobnames)

Date: 2015-02-12

Signature:

Jolanta M. Wroblewska

# CERTIFICATE

No. B 15 06 91950 006

**Holder of Certificate:** Seagate Technology LLC389 Disc Drive  
Longmont CO 80503  
USA**Production Facility(ies):**91950, 61810, 78428, 78415, 91496, 91551, 64076, 66326,  
39917, 79638, 86651**Certification Mark:****Product:**

Disk drives

**Model(s):**ST Drive Family  
ST Series  
ST3 (3.5 Series)  
ST9 (2.5 Series)**Parameters:**

Rated Input Voltage:	
ST, ST3(3.5 Series):	+5Vdc/+12Vdc
ST9(2.5 Series):	+5Vdc
Rated Frequency:	dc
Rated Input Current:	1.5A max (Drives will be labeled with actual current.)
Protection Class:	III
Degree of Protection:	IPX0

For further information please see attachment.

**Tested according to:** EN 60950-1:2006/A2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 092-72104431-000**Valid until:** 2019-06-20**Date,** 2015-06-17

Page 1 of 2

A handwritten signature in blue ink, reading 'William P. Weller'.





## Attachment 1

Bauart Certificate: B.15.06.91950.006

Firma / firm: Seagate Technology LLC, 389 Disc Drive, Longmont, CO 80503-9364 USA



America

File No. : 092-72104431-000  
 Standard(s) : EN 60950-1:2006/A2:2013  
 Type of Component/Equipment : Disc Drive (Information Technology Equipment)

ST, ST3 (3.5" Series), ST9 (2.5" Series) model variations:

ST250mmaaa; Where "mm" indicates Market Segment (NM, NX, NC, NK = Nearline; DM, DX = Desktop; VM = Video; VX = Surveillance; VN = NAS; AS = Archive; LM, LX UX = Notebook); "aaa" indicates non-safety related attributes (e. g. interface, RPM, cache, sensor, etc.)

ST320mmaaa  
 ST500mmaaa  
 ST750mmaaa  
 ST1000mmaaa  
 ST2000mmaaa  
 ST3000mmaaa  
 ST4000mmaaa  
 ST5000mmaaa  
 ST6000mmaaa  
 ST8000mmaaa

ST3xxxxyyy (3.5" Drives); Where "xxx" = capacity in GB; "yyy" indicates non-safety related attributes (e. g. interface, RPM, cache, sensor, etc.); "zz" indicates Market Segment (AS = Desktop, CS = Video)

ST9aaabbbb followed by AS or ASG (2.5" Drives); Where "aaa" = capacity in GB; "bbbb" indicates non-safety related attributes (e. g. interface, RPM, cache, model iteration, etc.); AS = desk top SATA and G = free fall sensor

## Conditions of Acceptability:

1. Disc drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
3. Disc drives were evaluated with a fan supplying 41 CFM air flow. Proper air flow should be considered in the end use product to maintain maximum case temperature of 60°C.

Technical Certifier

Page 2 of 2

TÜV SÜD AMERICA INC • 10 Centennial Drive • Peabody, MA 01960 USA • [www.TUVamerica.com](http://www.TUVamerica.com)

TUV®



## EU Declaration of Conformity

### Product Safety and EMC Compliance

The product(s) meets the requirements of The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012  
EN 55024:2010

Electromagnetic compatibility of multimedia equipment - Emission requirements, Class B  
Information Technology Equipment – Immunity characteristics – Limits and methods of measurement

EN 61000-3-2:2014  
EN 61000-3-3:2013

Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)  
Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current  $\leq 16$  Amps per Phase

The product(s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013 Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements

### Product Environmental Compliance

The product(s) meets the requirements of the RoHS “Recast” Directive 2011/65/EU (RoHS 2) as amended by Directive (EU) 2015/863 and by application of the following standards:

EN 50581:2012

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

IEC 62321:2015

Determination of certain substances in electrotechnical products. Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS).

Seagate products rely on the following RoHS 2 exemptions for compliance:

Exemption Description
(Exemptions are listed per Annex released September 24, 2010)
6a. Lead as an alloying element in steel containing up to 0.35% lead by weight
6b. Lead as an alloying element in aluminum up to 0.4% lead by weight
6c. Lead as an alloying element in copper containing up to 4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

<b>Year to Begin Affixing Mark:</b>	2013
<b>Manufacturer's Name:</b>	Seagate Technology, LLC
<b>Manufacturer's Address:</b> <b>(And Importer)</b>	10200 South De Anza Blvd. Cupertino, California 95014-3029 U.S.A.
<b>European Contact:</b>	Director of Operations Seagate Singapore Int'l HQ Pte. Ltd Koolhovenlaan 1 1119 NB Schiphol - Rijk The Netherlands
<b>Type of Equipment:</b>	Hard Disc Drive
<b>Product Name(s) (Internal Name):</b>	Video 3.5 HDD, NAS HDD, Surveillance HDD (Bacall BP2.0)
<b>Regulatory Model Number:</b>	STR013
<b>Series Model Name(s):</b>	Video 3.5 HDD, NAS HDD, Surveillance HDD

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology LLC.

Date: February 17, 2017 | 08:21:59 PST

Signature:  0070429E6774A400

Mike Crump  
Vice President  
Operations Quality





## Supplier's Declaration of Conformity

Declaration of Conformity with Electronic Compatibility Standards  
as required under the Radiocommunications Act

**Seagate Technology Australia Pty. Limited**  
**Level 7, 91 Phillip St**  
**PARRAMATTA NSW 2150**  
**AUSTRALIA**

Supplier Code **N176**

Declare under our sole responsibility that the product:

**Hard Disc Data Storage Drive**

**Model: Desktop HDD, Surveillance HDD**

to which this declaration relates is in conformity with the following standard(s):

Title	Test Regulation
<b><u>Australian/New Zealand Standard</u></b>	<b><u>AS/NZS CISPR 22: 2009 +A1: 2010</u></b>

(Name of the Authorized Person) **Sam Zavaglia**

(Title of the Authorized Person) **Senior Field Applications Engineer**

(Date of Issue) **4<sup>th</sup> December 2013**

(Signature)

符合性聲明書  
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	STX15031201

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓 B 室

Address

電話：02-2514-2273

Telephone

商品中（英）文名稱：硬式磁碟機

Commodity Name

商品型式（或型號）：Surveillance HDD (Bacall BP2.0)

Commodity Type (Model)

符合之檢驗標準及版次：CNS 13438 (95 年完整版)

Standard(s) and version

試驗報告編號：BE-TRB31104

Test Report Number

試驗室名稱及代號：EMC Integrity, Inc

Testing laboratory name and designation number

SL2-IN-E-1134R

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this

或  
or



D33027



D33027

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所  
聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity  
Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/Mr. Patrick J. O'Malley (簽章)

EVP & CEO (Executive Vice President and Chief Executive Officer)

Obligatory Applicant

(Signature)

中 華 民 國

DATE

104

(year)

年

03

(month)

月

12

(day)

日

# 방송통신기자재등의 적합등록 필증

## Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재 명칭 Equipment Name	Hard Disk Drive
기본모델명 Basic Model Number	Desktop HDD
파생모델명 Series Model Number	Surveillance HDD, ST1000VX001, ST1000VX005, ST2000VX005, ST3000DM003, ST3000VX003, ST3000VX006, ST4000DM000, ST4000DX002, ST4000VX002, ST5000DX001, ST5000VX0011, ST6000DM001, ST6000VX0011, ST1000VX003, ST2000VX003, ST2000VX008, ST3000VX002, ST3000VX005, ST3000VX010, ST4000DX000, ST4000VX000, ST5000DX000, ST5000VX0001, ST5000DM002, ST6000VX0001, STR013, Makara 5TB SATA, Makara 6TB SATA, ST8000DM001, ST6000DX000
등록번호 Registration No.	KCC-REM-STX-DesktopHDD
제조사/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 Date of Registration	2013-02-13
기타 Others	- Capacity : 4000 GB ST4000DM000, 5DY85M90 / China - Capacity : 5000 GB ST5000DX001, S1E3JA6N / China - Capacity : 6000 GB ST6000DX000, K4J00C2A / Thailand
<p>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.</p> <p style="text-align: right;">2016년(Year) 11월(Month) 14일(Date)</p> <p style="text-align: center;">국립전파연구원장</p> <p style="text-align: center;">Director General of National Radio Research Agency</p> <p style="text-align: center;">※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다. 위반시 과태료 처분 및 등록이 취소될 수 있습니다.</p>	



## 변경신고 처리결과 통보서

전자민원신청번호		201617100000226902	접수일자	2016-11-14
대상기기	상호 또는 성명	SEAGATE TECHNOLOGY LLC	적합성평가 분야	적합등록
	기자재 명칭	Hard Disk Drive	기본모델명	Desktop HDD
	적합성평가 번호	KCC-REM-STX-DesktopHDD	적합성평가 연 월 일	2016-11-14
변경 사항		변경 전		변경 후
모델명		Surveillance HDD,ST8000DM001,ST6000DX000,Makara 6TB SATA,Makara 5TB SATA		Surveillance HDD,ST8000DM001,ST6000DX000,Makara 6TB SATA,ST1000VX001,ST1000VX005,ST2000VX005,ST3000DM003,ST3000VX003,ST3000VX006,ST4000DM000,ST4000DX002,ST4000VX002,ST5000DX001,ST5000VX0011,ST6000DM001,ST6000VX0011,Makara 5TB SATA,ST1000VX003,ST2000VX003,ST2000VX008,ST3000VX002,ST3000VX005,ST3000VX010,ST4000DX000,ST4000VX000,ST5000DX000,ST5000VX0001,ST5000DM002,ST6000VX0001,STR013
<p>「방송통신기자재등의 적합성평가에 관한 고시」 제16조에 따른 적합성평가 사항의 변경신고 것에 대하여 위와 같이 변경처리 되었음을 알려드립니다.</p> <p style="text-align: right;">2016년(Year) 11월(Month) 14일(Date)</p> <p style="text-align: center;">국립전파연구원장</p> <div style="text-align: right;">  </div>				

